SPSS output of paired means analysis.

The rate of growth in population versus the rate of growth in import of Toothpaste, Soap, and Shampoo by their weight.

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| **Paired Samples Statistics** | | | | | |
|  | | Mean | N | Std. Deviation | Std. Error Mean |
| Pair 1 | ROGpop | .012173 | 15 | .0009343 | .0002412 |
| ROGtoothpaste | 1.184000 | 15 | .3023669 | .0780708 |
| Pair 2 | ROGpop | .012173 | 15 | .0009343 | .0002412 |
| ROGsoap | 1.164667 | 15 | .3664865 | .0946264 |
| Pair 3 | ROGpop | .012173 | 15 | .0009343 | .0002412 |
| ROGshampoo | 1.308000 | 15 | .3935770 | .1016211 |

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| **Paired Samples Correlations** | | | | |
|  | | N | Correlation | Sig. |
| Pair 1 | ROGpop & ROGtoothpaste | 15 | -.156 | .579 |
| Pair 2 | ROGpop & ROGsoap | 15 | .139 | .622 |
| Pair 3 | ROGpop & ROGshampoo | 15 | -.033 | .907 |

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| **Paired Samples Test** | | | | | | | | | |
|  | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| Pair 1 | ROGpop - ROGtoothpaste | -1.1718273 | .3025141 | .0781088 | -1.3393541 | -1.0043006 | -15.003 | 14 | .000 |
| Pair 2 | ROGpop - ROGsoap | -1.1524940 | .3663580 | .0945932 | -1.3553763 | -.9496117 | -12.184 | 14 | .000 |
| Pair 3 | ROGpop - ROGshampoo | -1.2958273 | .3936091 | .1016294 | -1.5138008 | -1.0778539 | -12.751 | 14 | .000 |

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| **Paired Samples Effect Sizes** | | | | | | |
|  | | | Standardizera | Point Estimate | 95% Confidence Interval | |
| Lower | Upper |
| Pair 1 | ROGpop - ROGtoothpaste | Cohen's d | .3025141 | -3.874 | -5.372 | -2.360 |
| Hedges' correction | .3109303 | -3.769 | -5.226 | -2.296 |
| Pair 2 | ROGpop - ROGsoap | Cohen's d | .3663580 | -3.146 | -4.395 | -1.878 |
| Hedges' correction | .3765504 | -3.061 | -4.276 | -1.828 |
| Pair 3 | ROGpop - ROGshampoo | Cohen's d | .3936091 | -3.292 | -4.591 | -1.976 |
| Hedges' correction | .4045596 | -3.203 | -4.467 | -1.922 |
| a. The denominator used in estimating the effect sizes.  Cohen's d uses the sample standard deviation of the mean difference.  Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor. | | | | | | |

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ROG of import of the three items by their volumes in Iranian Rial (CIF value) versus their price in kilogram.

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| **Paired Samples Statistics** | | | | | |
|  | | Mean | N | Std. Deviation | Std. Error Mean |
| Pair 1 | ROGcifTooth | 1.482667 | 15 | .4818486 | .1244128 |
| ROGkgTooth | 1.244667 | 15 | .2328048 | .0601100 |
| Pair 2 | ROGcifSoap | 1.402667 | 15 | .4908079 | .1267261 |
| ROGkgSoap | 1.220667 | 15 | .2606165 | .0672909 |
| Pair 3 | ROGcifShampoo | 1.582000 | 15 | .4265510 | .1101350 |
| ROGkgShampoo | 1.235333 | 15 | .2673111 | .0690194 |

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| **Paired Samples Effect Sizes** | | | | | | |
|  | | | Standardizera | Point Estimate | 95% Confidence Interval | |
| Lower | Upper |
| Pair 1 | ROGcifTooth - ROGkgTooth | Cohen's d | .3873205 | .614 | .051 | 1.159 |
| Hedges' correction | .3980961 | .598 | .050 | 1.128 |
| Pair 2 | ROGcifSoap - ROGkgSoap | Cohen's d | .4569964 | .398 | -.135 | .918 |
| Hedges' correction | .4697105 | .387 | -.131 | .894 |
| Pair 3 | ROGcifShampoo - ROGkgShampoo | Cohen's d | .4194498 | .826 | .226 | 1.406 |
| Hedges' correction | .4311192 | .804 | .220 | 1.368 |
| a. The denominator used in estimating the effect sizes.  Cohen's d uses the sample standard deviation of the mean difference.  Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor. | | | | | | |

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ROG of the volume of import of the 3 items adjusted by the rate of inflation versus the ROG of the Population.

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| **Paired Samples Statistics** | | | | | |
|  | | Mean | N | Std. Deviation | Std. Error Mean |
| Pair 1 | ROGinfAdjTooth | 1.502667 | 15 | .5331104 | .1376485 |
| ROGpop | .012173 | 15 | .0009343 | .0002412 |
| Pair 2 | ROGinfAdjSoap | 1.402000 | 15 | .4622801 | .1193602 |
| ROGpop | .012173 | 15 | .0009343 | .0002412 |
| Pair 3 | ROGinfAdjShampoo | 1.592667 | 15 | .4353400 | .1124043 |
| ROGpop | .012173 | 15 | .0009343 | .0002412 |

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| **Paired Samples Correlations** | | | | |
|  | | N | Correlation | Sig. |
| Pair 1 | ROGinfAdjTooth & ROGpop | 15 | .077 | .785 |
| Pair 2 | ROGinfAdjSoap & ROGpop | 15 | .165 | .557 |
| Pair 3 | ROGinfAdjShampoo & ROGpop | 15 | -.087 | .757 |

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| **Paired Samples Test** | | | | | | | | | |
|  | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| Pair 1 | ROGinfAdjTooth - ROGpop | 1.4904940 | .5330392 | .1376301 | 1.1953067 | 1.7856813 | 10.830 | 14 | .000 |
| Pair 2 | ROGinfAdjSoap - ROGpop | 1.3898273 | .4621270 | .1193207 | 1.1339099 | 1.6457448 | 11.648 | 14 | .000 |
| Pair 3 | ROGinfAdjShampoo - ROGpop | 1.5804940 | .4354228 | .1124257 | 1.3393649 | 1.8216231 | 14.058 | 14 | .000 |

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| **Paired Samples Effect Sizes** | | | | | | |
|  | | | Standardizera | Point Estimate | 95% Confidence Interval | |
| Lower | Upper |
| Pair 1 | ROGinfAdjTooth - ROGpop | Cohen's d | .5330392 | 2.796 | 1.644 | 3.929 |
| Hedges' correction | .5478689 | 2.721 | 1.600 | 3.823 |
| Pair 2 | ROGinfAdjSoap - ROGpop | Cohen's d | .4621270 | 3.007 | 1.786 | 4.210 |
| Hedges' correction | .4749838 | 2.926 | 1.738 | 4.096 |
| Pair 3 | ROGinfAdjShampoo - ROGpop | Cohen's d | .4354228 | 3.630 | 2.199 | 5.044 |
| Hedges' correction | .4475366 | 3.532 | 2.140 | 4.907 |
| a. The denominator used in estimating the effect sizes.  Cohen's d uses the sample standard deviation of the mean difference.  Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor. | | | | | | |

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| **Paired Samples Correlations** | | | | |
|  | | N | Correlation | Sig. |
| Pair 1 | ROGcifTooth & GNIpcPPP | 14 | .081 | .783 |
| Pair 2 | ROGcifSoap & GNIpcPPP | 14 | .067 | .819 |
| Pair 3 | ROGcifShampoo & GNIpcPPP | 14 | .700 | .005 |

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ROG of the volume of import of the 3 items in inflation adjusted values versus the per capita income of the Iranians measured by the Purchasing Power Parity.

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| **Paired Samples Test** | | | | | | | | | |
|  | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| Pair 1 | ROGcifTooth - GNIpcPPP | 1.3079286 | .4686037 | .1252396 | 1.0373648 | 1.5784923 | 10.443 | 13 | .000 |
| Pair 2 | ROGcifSoap - GNIpcPPP | 1.1907857 | .5132322 | .1371671 | .8944543 | 1.4871171 | 8.681 | 13 | .000 |
| Pair 3 | ROGcifShampoo - GNIpcPPP | 1.3736429 | .3680695 | .0983707 | 1.1611258 | 1.5861599 | 13.964 | 13 | .000 |

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| **Paired Samples Effect Sizes** | | | | | | |
|  | | | Standardizera | Point Estimate | 95% Confidence Interval | |
| Lower | Upper |
| Pair 1 | ROGcifTooth - GNIpcPPP | Cohen's d | .4686037 | 2.791 | 1.598 | 3.963 |
| Hedges' correction | .4826854 | 2.710 | 1.552 | 3.848 |
| Pair 2 | ROGcifSoap - GNIpcPPP | Cohen's d | .5132322 | 2.320 | 1.283 | 3.334 |
| Hedges' correction | .5286550 | 2.252 | 1.246 | 3.237 |
| Pair 3 | ROGcifShampoo - GNIpcPPP | Cohen's d | .3680695 | 3.732 | 2.213 | 5.234 |
| Hedges' correction | .3791301 | 3.623 | 2.149 | 5.081 |
| a. The denominator used in estimating the effect sizes.  Cohen's d uses the sample standard deviation of the mean difference.  Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor. | | | | | | |

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| **Paired Samples Statistics** | | | | | |
|  | | Mean | N | Std. Deviation | Std. Error Mean |
| Pair 1 | ROGinfAdjTooth | 1.502667 | 15 | .5331104 | .1376485 |
| GNIpcapPPP | .192746 | 15 | .1236565 | .0319280 |
| Pair 2 | ROGinfAdjSoap | 1.402000 | 15 | .4622801 | .1193602 |
| GNIpcapPPP | .192746 | 15 | .1236565 | .0319280 |
| Pair 3 | ROGinfAdjShampoo | 1.592667 | 15 | .4353400 | .1124043 |
| GNIpcapPPP | .192746 | 15 | .1236565 | .0319280 |

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| **Paired Samples Correlations** | | | | |
|  | | N | Correlation | Sig. |
| Pair 1 | ROGinfAdjTooth & GNIpcapPPP | 15 | .160 | .568 |
| Pair 2 | ROGinfAdjSoap & GNIpcapPPP | 15 | .227 | .416 |
| Pair 3 | ROGinfAdjShampoo & GNIpcapPPP | 15 | .168 | .550 |

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| **Paired Samples Test** | | | | | | | | | |
|  | | Paired Differences | | | | | t | df | Sig. (2-tailed) |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| Pair 1 | ROGinfAdjTooth - GNIpcapPPP | 1.3099205 | .5276060 | .1362273 | 1.0177420 | 1.6020990 | 9.616 | 14 | .000 |
| Pair 2 | ROGinfAdjSoap - GNIpcapPPP | 1.2092538 | .4506301 | .1163522 | .9597032 | 1.4588045 | 10.393 | 14 | .000 |
| Pair 3 | ROGinfAdjShampoo - GNIpcapPPP | 1.3999205 | .4321638 | .1115842 | 1.1605962 | 1.6392448 | 12.546 | 14 | .000 |

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| **Paired Samples Effect Sizes** | | | | | | |
|  | | | Standardizera | Point Estimate | 95% Confidence Interval | |
| Lower | Upper |
| Pair 1 | ROGinfAdjTooth - GNIpcapPPP | Cohen's d | .5276060 | 2.483 | 1.431 | 3.513 |
| Hedges' correction | .5422845 | 2.416 | 1.393 | 3.418 |
| Pair 2 | ROGinfAdjSoap - GNIpcapPPP | Cohen's d | .4506301 | 2.683 | 1.568 | 3.779 |
| Hedges' correction | .4631671 | 2.611 | 1.525 | 3.677 |
| Pair 3 | ROGinfAdjShampoo - GNIpcapPPP | Cohen's d | .4321638 | 3.239 | 1.941 | 4.520 |
| Hedges' correction | .4441870 | 3.152 | 1.888 | 4.398 |
| a. The denominator used in estimating the effect sizes.  Cohen's d uses the sample standard deviation of the mean difference.  Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor. | | | | | | |